

Two-component, extra fine-graded epoxy putty**Description**

EPOMAX-STUCCO is a two-component epoxy system without solvents, offering very strong bonding to the substrate, high hardness and high mechanical strength. It is significantly resistant to acids, alkalis, detergents, sea water and temperature variations.

It is classified as a structural bonding agent, according to EN 1504-4. Certificate Nr. 2032-CPR-10.11.

Fields of application

EPOMAX-STUCCO is ideal for puttying surfaces. It is also used for bonding of concrete, steel, stone, wood etc., for restoring damages on concrete and cement mortars, as well as for sealing cracks that will be repaired with EPOMAX-L10, EPOMAX-L20 or DUREBOND epoxy injection resins.

Technical data

Basis:	two-component epoxy resin
A-component color:	white
B-component color:	grey
A+B color:	grey
Form:	paste
A-component density:	1.53 ± 0.07 kg/lit
B-component density:	1.50 ± 0.20 kg/lit
A+B density:	1.52 ± 0.14 kg/lit
Mixing ratio (A+B):	100:100 by weight
Pot life:	approx. 60 min at +20°C
Minimum hardening temperature:	+8°C
Walkability:	after 16 hours at +23°C

Final strength: after 7 days at +23°C

Adhesion for hardened concrete to hardened concrete and for fresh concrete to hardened concrete:

(EN 12636) Pass (fracture in the concrete)

Shear adhesion strength for hardened concrete to hardened concrete: 7.8 N/mm² (EN 12615)

Compressive strength: 50.0 N/mm² (EN 12190)

Shrinkage: 0.05% (EN 12671-1)

Workability : 60 minutes at +20°C (EN ISO 9514)

Sensitivity to water: Pass (EN 12636)

Modulus of elasticity in compression: 5,150 N/mm² (EN 13412)

Coefficient of thermal expansion: 61 X 10⁻⁶ (EN 1770)

Glass transition temperature: ≥ 74 °C (EN 12614)

Reaction to fire: Euroclass E (EN 13501-1)

Durability: Pass* (EN 13733)

**The compressive shear load at failure after exposure to thermal cycling shall not be less than the lowest tensile strength of the bonded or the original concrete.*

Compressive strength: 58.6 N/mm² (DIN EN 196-1)

Flexural strength: 30.0 N/mm² (DIN EN 196-1)

Cleaning of tools:

Tools should be cleaned with SM-12 solvent, immediately after use.

Directions for use

1. Substrate preparation

The application surface should be:

- Dry and durable.
- Free of materials that prevent bonding, e.g. dust, grease, loose particles etc.

2. Mixing of the components

Components A (resin) and B (hardener) are packed in two separate containers, in a predetermined mixing proportion. They are placed into a clean container and mixed for about 5 minutes with an appropriate hand tool (e.g. a small trowel), until a uniform pasty putty is formed.

In case less quantity is required (than the one available in the package), equal quantities by volume of comp. A and comp. B are thoroughly mixed in a clean container, as described above.

3. Application - Consumption

EPOMAX-STUCCO is applied by trowel or spatula on a dry and clean surface.

Consumption: Approx. 1.35 kg/m²/mm of layer thickness.

Packaging

EPOMAX-STUCCO is supplied in packages (A+B) of 1 kg, with components A and B having a fixed proportion by weight.

Shelf-life - Storage

12 months from production date, if stored in original, sealed packaging, in areas protected from humidity and direct sun exposure. Recommended storage temperature between +5°C and +35°C.

Remarks

- The workability of epoxy materials is affected by temperature. The ideal temperature of application is between +15°C and +25°C, for which the product obtains optimal workability and curing time. Room temperature below +15°C will expand the curing time, while temperatures above +30°C will reduce it. It is recommended to mildly preheat the product in the winter, and store the product in a cool room before application in the summer.
- After hardening, EPOMAX-STUCCO is totally safe for health.
- Before application, consult the directions for safe use and the precautions written on the package.

Volatile Organic Compounds (VOCs)

According to the Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory g, type SB is 350 g/lit (2010) for the ready-to-use product.

The ready-to-use product EPOMAX-STUCCO contains a maximum of 350 g/lit VOC.



2032

ISOMAT S.A.

17th km Thessaloniki – Ag. Athanasios
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece

10

2032-CPR-10.11

EN 1504-4

DoP No:EPOMAX-STUCCO/1264-01

Structural bonding product for bonded mortar or concrete for uses other than low performance requirements

Adhesion: Fracture to concrete

Shear Strength: $\geq 6.0 \text{ N/mm}^2$

Compressive strength: $\geq 30.0 \text{ N/mm}^2$

Shrinkage expansion: $\leq 0.1\%$

Workability: 60 minutes at +20 °C

Sensitivity to water: pass

Modulus of elasticity: $\geq 2,000 \text{ N/mm}^2$

Coefficient of thermal expansion: $\leq 100 \times 10^{-6}$ per K

Glass transition temperature: $\geq 40 \text{ °C}$

Reaction to fire: Euroclass E

Durability: Pass

Dangerous substances: comply with 5.4

ISOMAT S.A.

BUILDING CHEMICALS AND MORTARS

MAIN OFFICES - FACTORY:

17th km Thessaloniki - Ag. Athanasios Road,
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece,
Tel.: +30 2310 576 000, Fax: +30 2310 722 475

www.isomat.net e-mail: info@isomat.net